

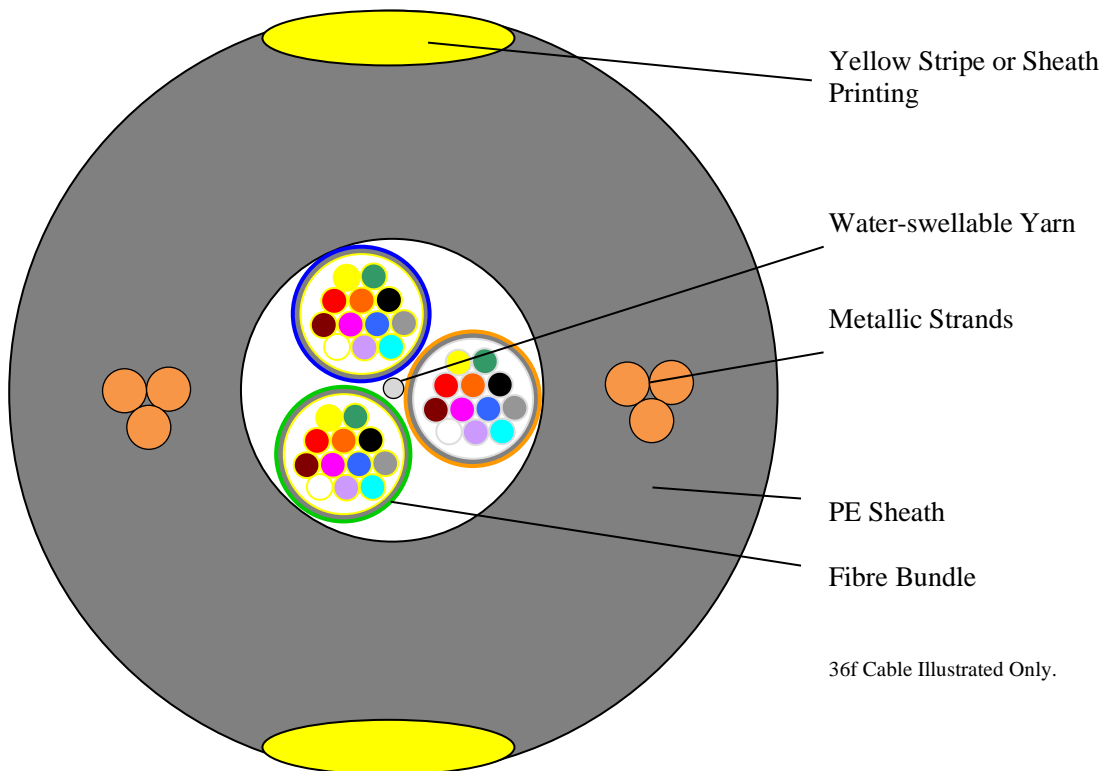
Cable Installation Guide

Openreach Installation Procedure For 36, 48 & 96f Ultra-Lightweight Overhead Cable

CIG0091 GB

Product Application

The instructions within this document explain the stripping procedure for the Prysmian Group 36, 48 & 96 fibre Ultra-Lightweight Overhead Cable,



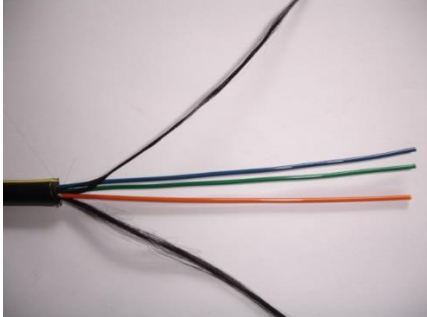
Precautions and Warnings

- ! This guide is only valid for products purchased from or approved by Prysmian .
- ! During this procedure all local Health & Safety statutory regulations must be adhered to.
- ! When using longitudinal cutters it is advisable to 'practice' on a dummy section of cable to ensure that the operation of the cutters does not damage the fibre bundle.
- ! When using the Lint Free Cloth **always** work towards the free end of the fibre bundle.
- ! In the event that the Lint Free Cloth becomes clogged with resin replace it to prevent it from damaging the optical fibres.
- ! Mid-cable access can only be undertaken at a zero tension position e.g at a pole between 2 tension clamps.

Cable Installation Guide


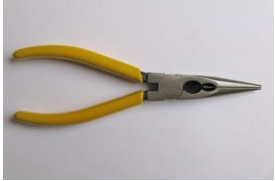



Unit Designation

Unit Colours.



<u>36f Cable</u>	<u>48 & 96f Cable</u>
Unit 1 – Blue	Unit 1 – Blue
Unit 2 – Orange	Unit 2 - Orange
Unit 3 - Green	Unit 3 – Green
	Unit 4 - Red

Tools and materials

<p>1. FTTP 36F ULW AC Sheath Cutter.</p> <p>BT Item Code: 088338</p> 	<p>2. Replacement Cassette For FTTP 36F ULW AC Sheath Cutter.</p> <p>BT Item Code: 088339</p> <p>No Picture</p>	<p>3. Lint Free Cloth.</p> <p>BT Item Code: n/a</p> 	<p>4. Pliers Wiring 5.</p> <p>BT Item Code: 141714</p> 
<p>5. Nipper Diagonal Cutter 160mm</p> <p>BT Item Code: 127405</p> 	<p>6. Scissors</p> <p>BT Item Code: 116282</p> 	<p>7. Loose Tube Peg Cutter</p> <p>BT Item Code: 126826</p> 	<p>8. IPA</p> <p>BT Item Code: n/a</p> <p>No Picture</p>
<p>9. Cleaning Cloth</p> <p>BT Item Code:090889</p> 			

Cable Installation Guide

Cable End Access Procedure

Step 1



Determine the amount of cable sheath to be removed and at the required distance mark the cable sheath.

Cable Installation Guide

Step 2



Assemble the Sheath Cutter around the cable at this point.

To ensure that the cutter blades do not get damaged ensure that they are positioned on the yellow line on the cable sheath. If there is no yellow line then the blades should be positioned on the sheath printing.

Cable Installation Guide

Step 3



Pull the Sheath Cutter along the cable towards the free end of the cable.

Cable Installation Guide

Step 4



Using the Nipper Diagonal Cutter cut along the two cuts.

Cable Installation Guide

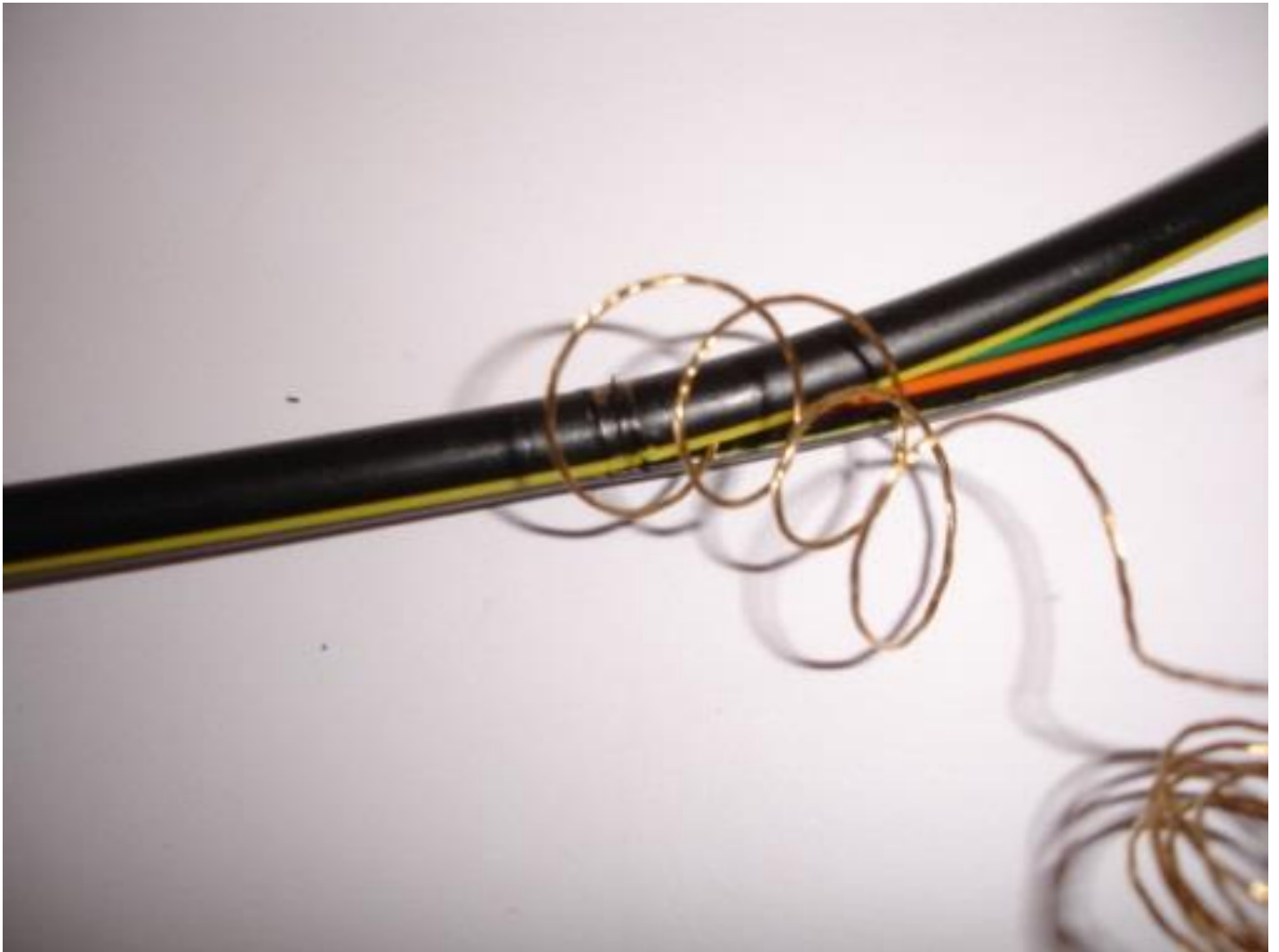
Step 5



Split the two halves of sheath to expose the fibre units.

Cable Installation Guide

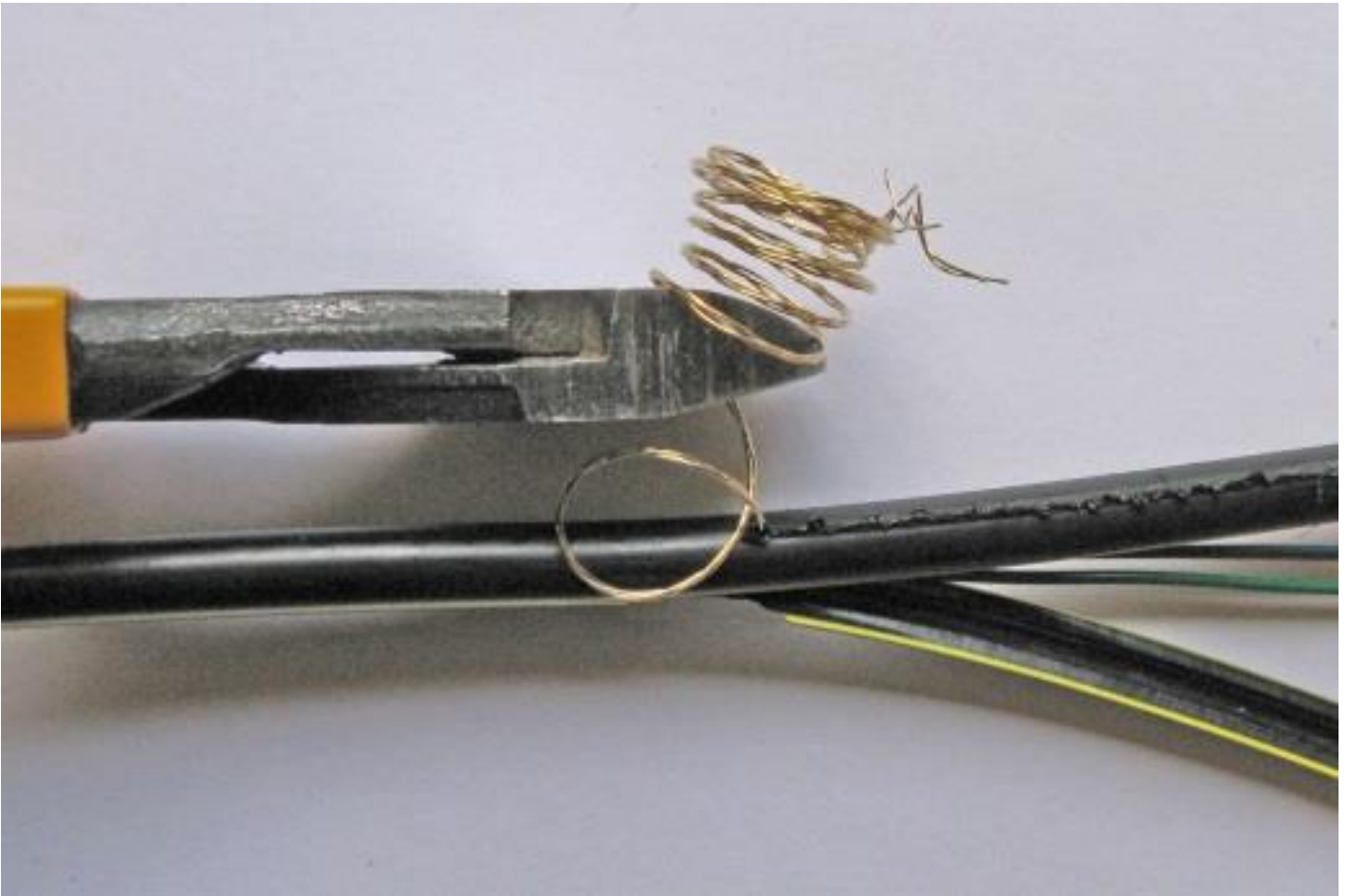
Step 6



In the event that cable anchoring is required within the optical fibre joint remove one of the steel wire strength members from the split sheath using two pairs of pliers.
If not then go to step 8.

Cable Installation Guide

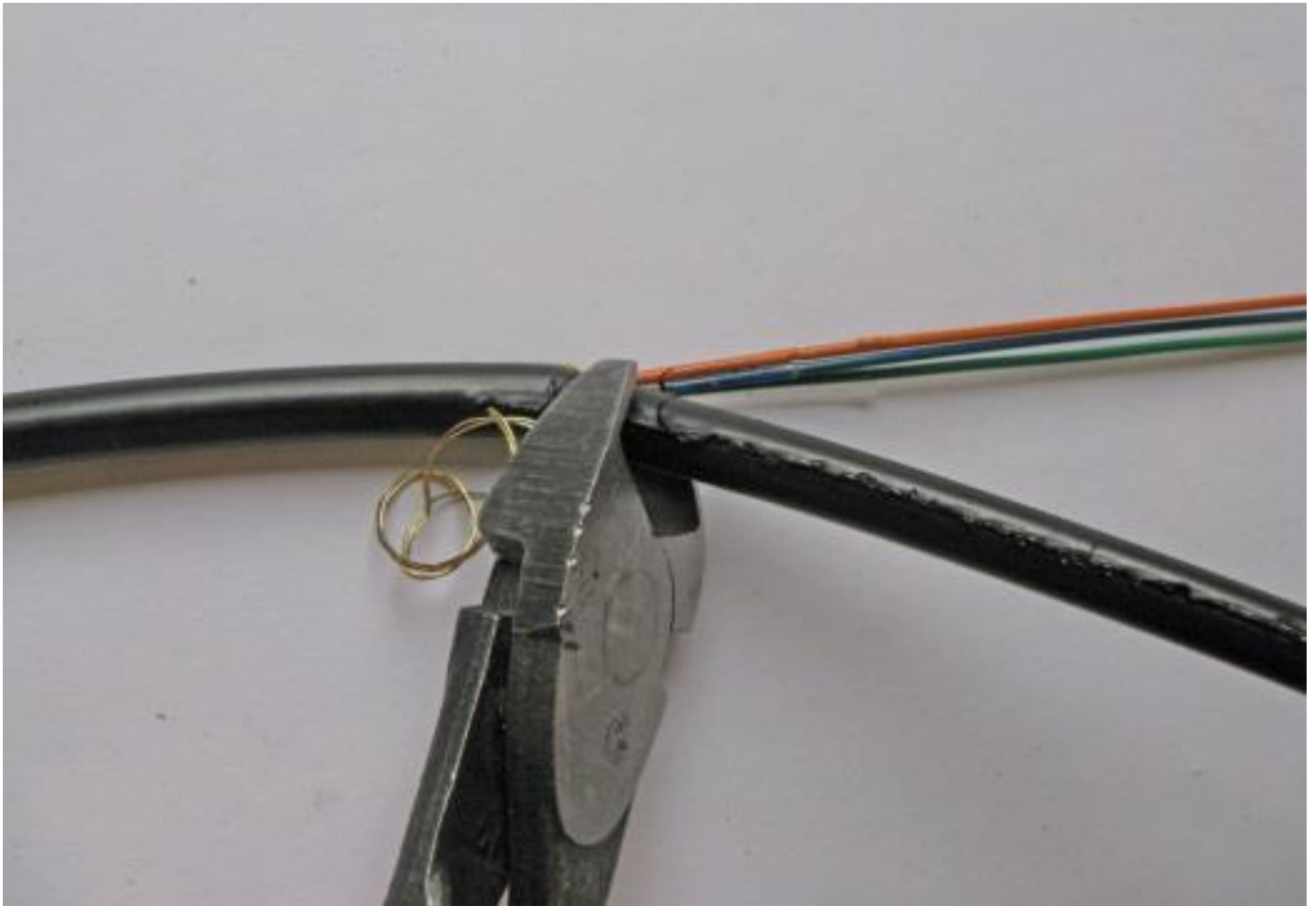
Step 7



Cut the steel wire strength member to the required length.

Cable Installation Guide

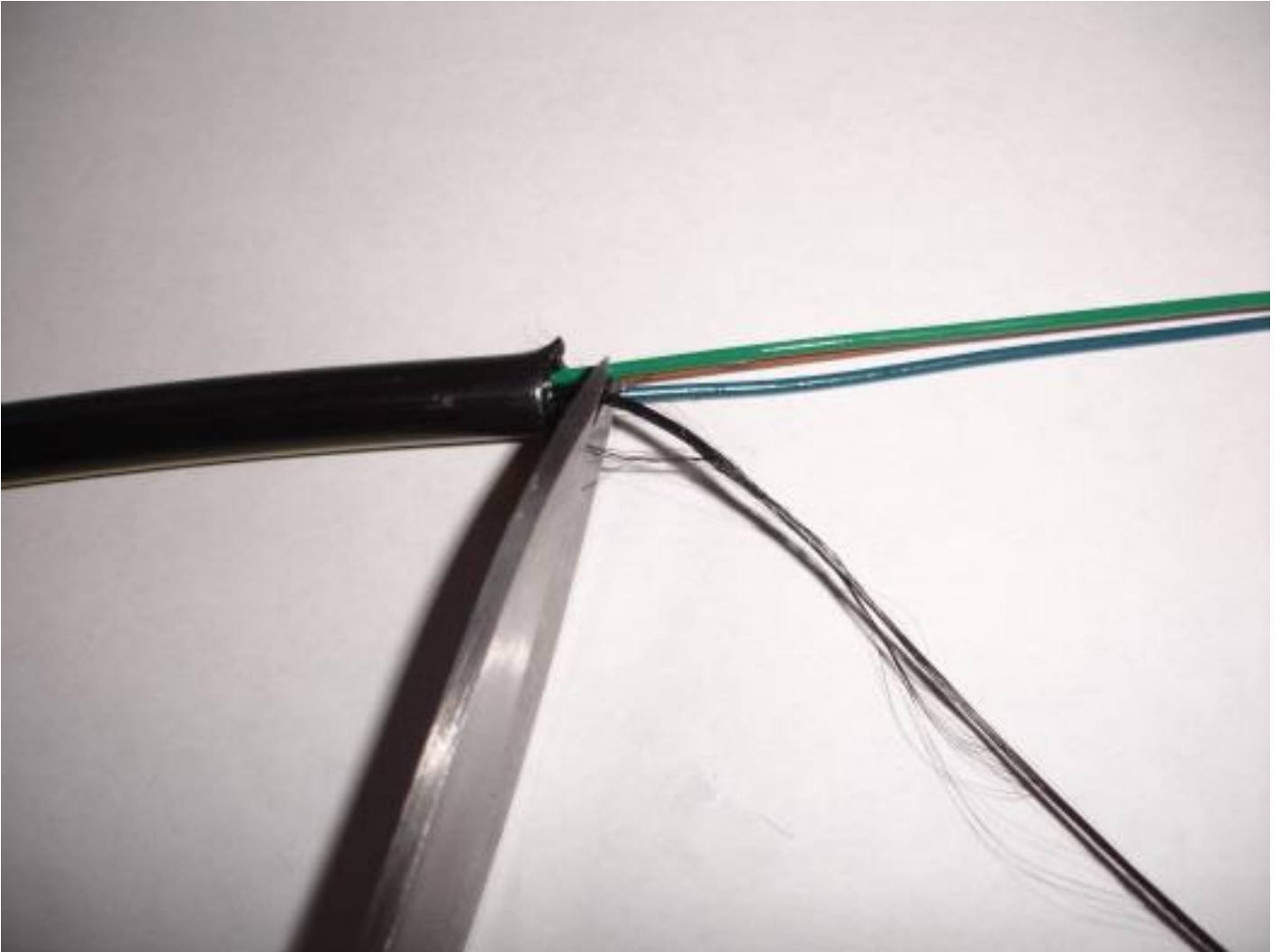
Step 8



Cut the sheath at the point identified in step 1.

Cable Installation Guide

Step 9



Using scissors cut the water swellable yarn(s) off. Using scissors cut the water swellable yarn(s) off.

Cable Installation Guide

Mid-Cable Access Procedure

Step 1



Determine the amount of cable sheath to be removed and mark the cable sheath at the required points.

Cable Installation Guide

Step 2



Assemble the Sheath Cutter around the cable at one of these point.

To ensure that the cutter blades do not get damaged ensure that they are positioned on the yellow line on the cable sheath. If there is no yellow line then the blades should be positioned on the sheath printing.

Cable Installation Guide

Step 3



Pull the Sheath Cutter along the cable towards the free end of the cable.

Cable Installation Guide

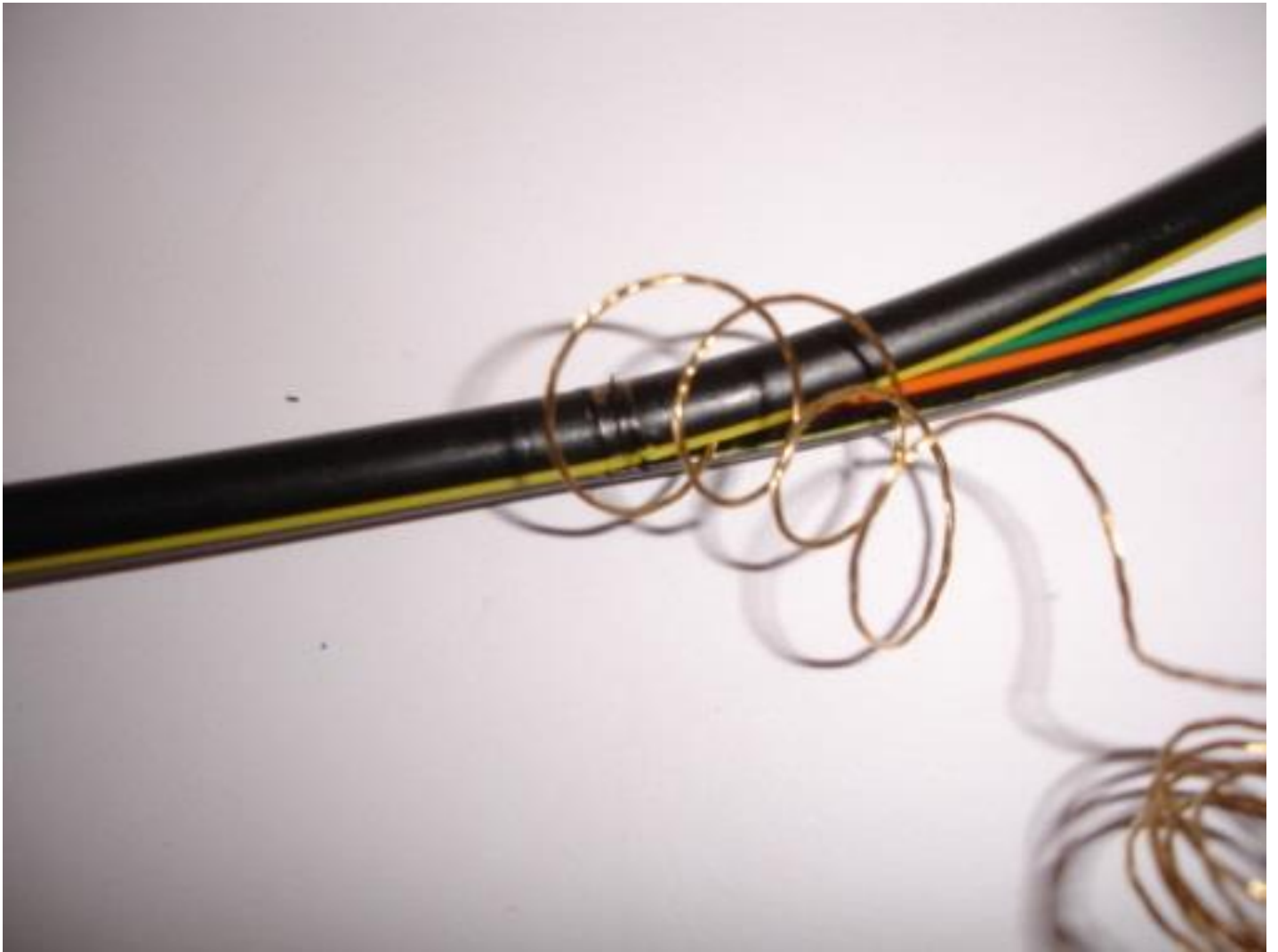
Step 4



Flex the cable to enable the cable to be split into two halves thus exposing fibre units. Alternatively a suitable approved tool can be used to separate the two halves of cable sheath.

Cable Installation Guide

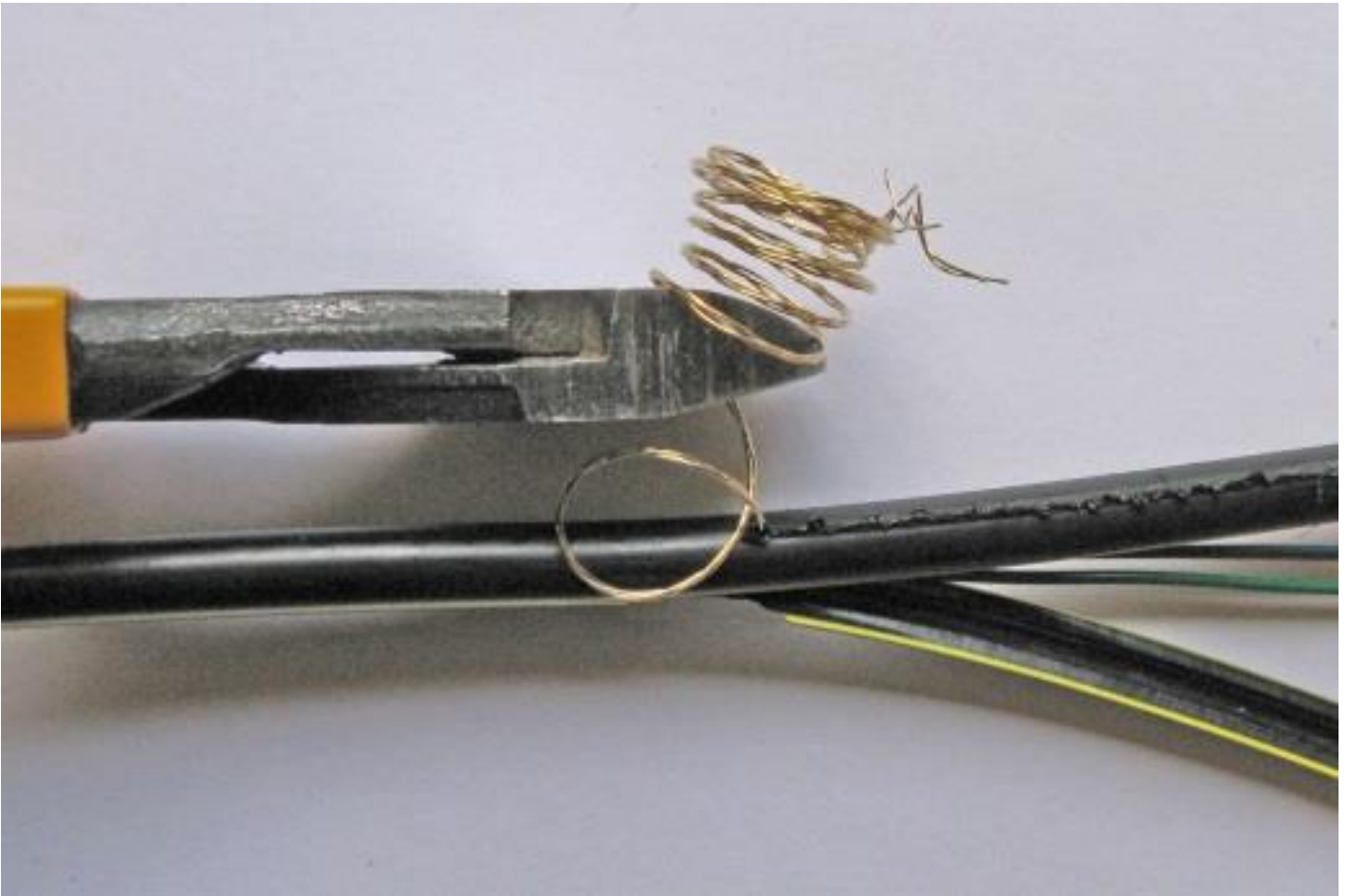
Step 5



In the event that cable anchoring is required within the optical fibre joint remove one of the steel wire strength members from the split sheath using two pairs of pliers. If not then go to step 7.

Cable Installation Guide

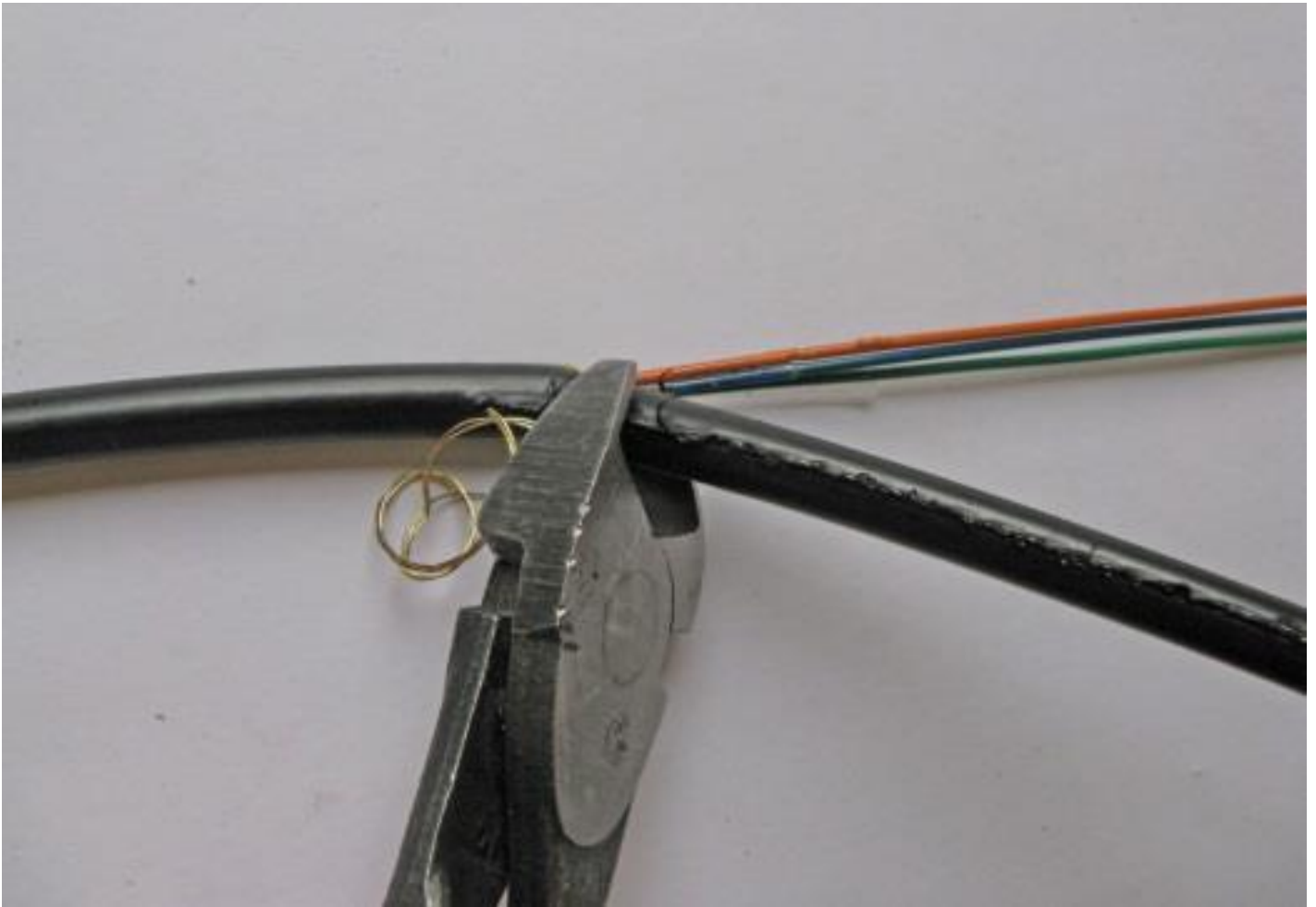
Step 6



Cut the steel wire strength member to the required length.

Cable Installation Guide

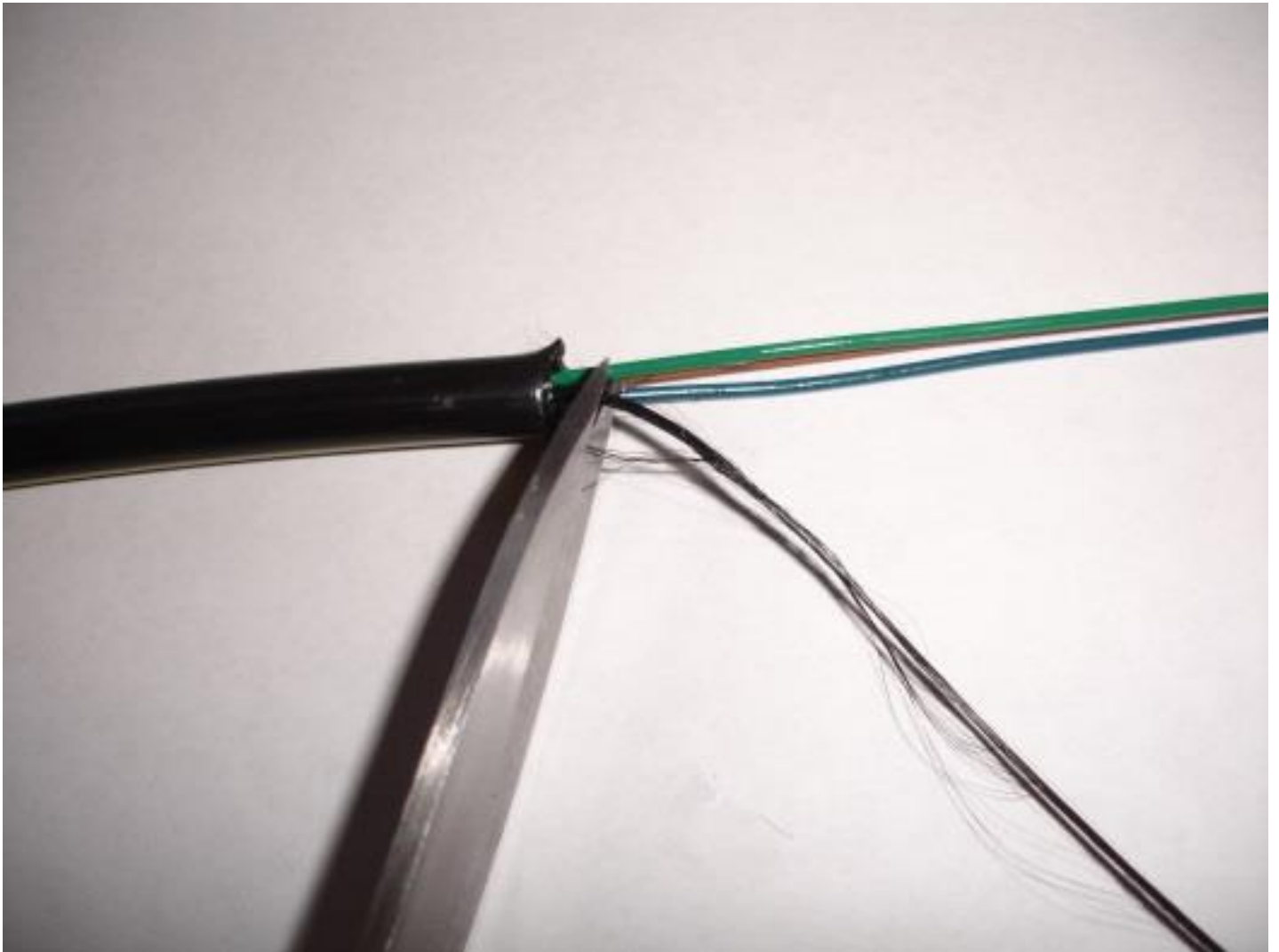
Step 7



Cut the sheath at the points identified in step 1.

Cable Installation Guide

Step 8

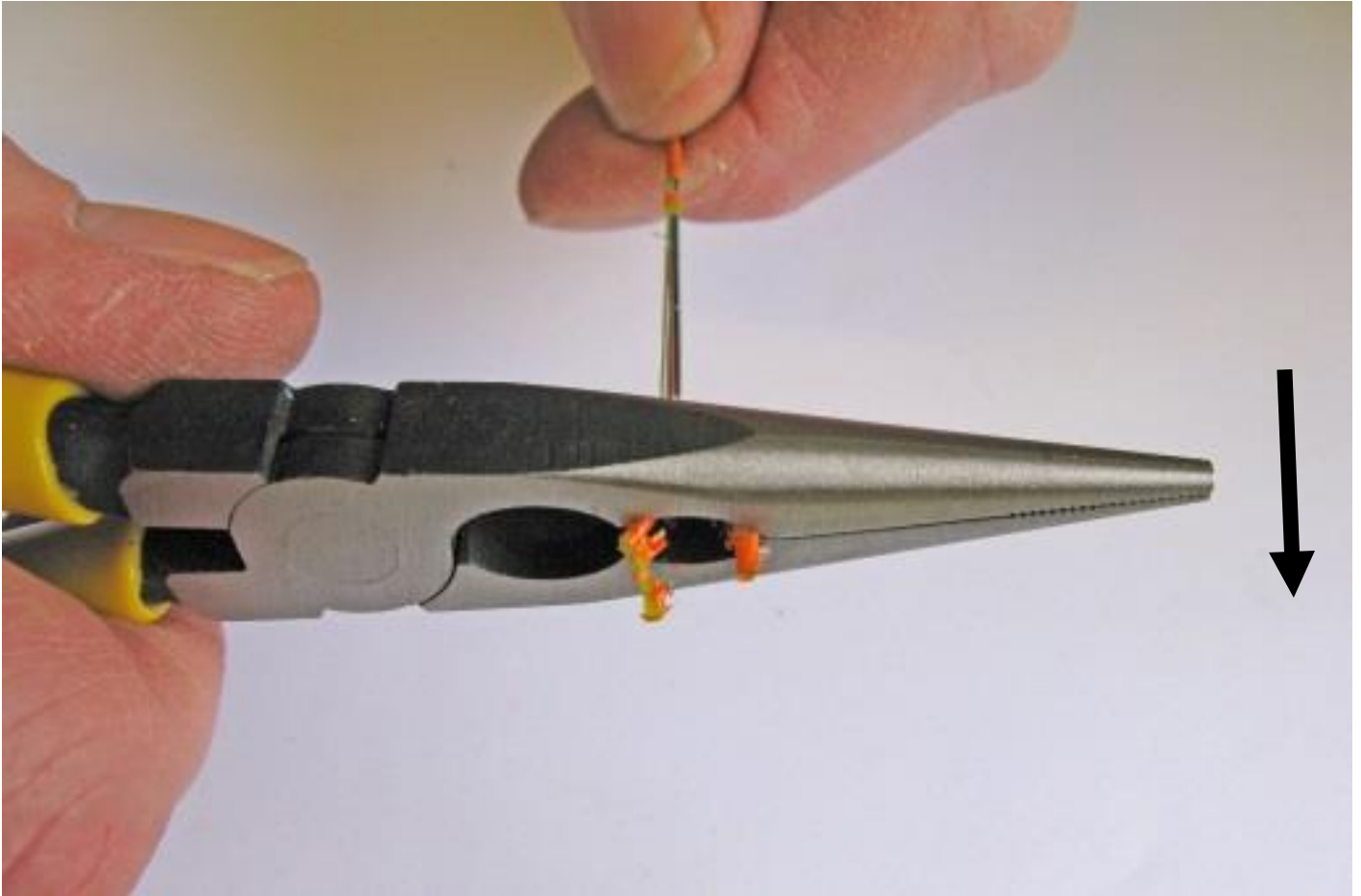


Using scissors cut the water swellable yarn(s) off.

Cable Installation Guide

EPFU Fibre Bundle Stripping Procedure

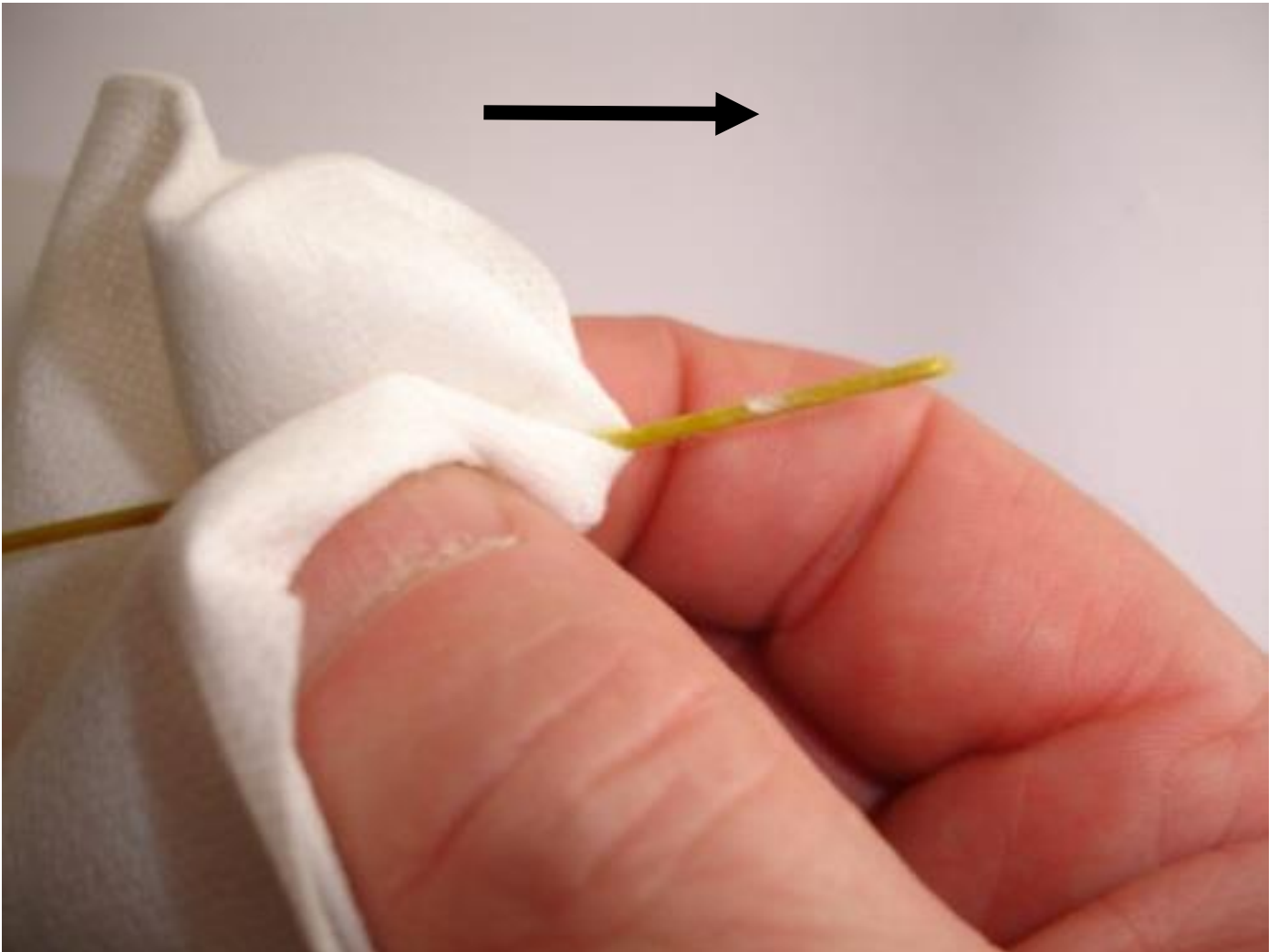
Step 1



Using the Pliers Wiring 5 remove 20mm of coating from the fibre bundle.

Cable Installation Guide

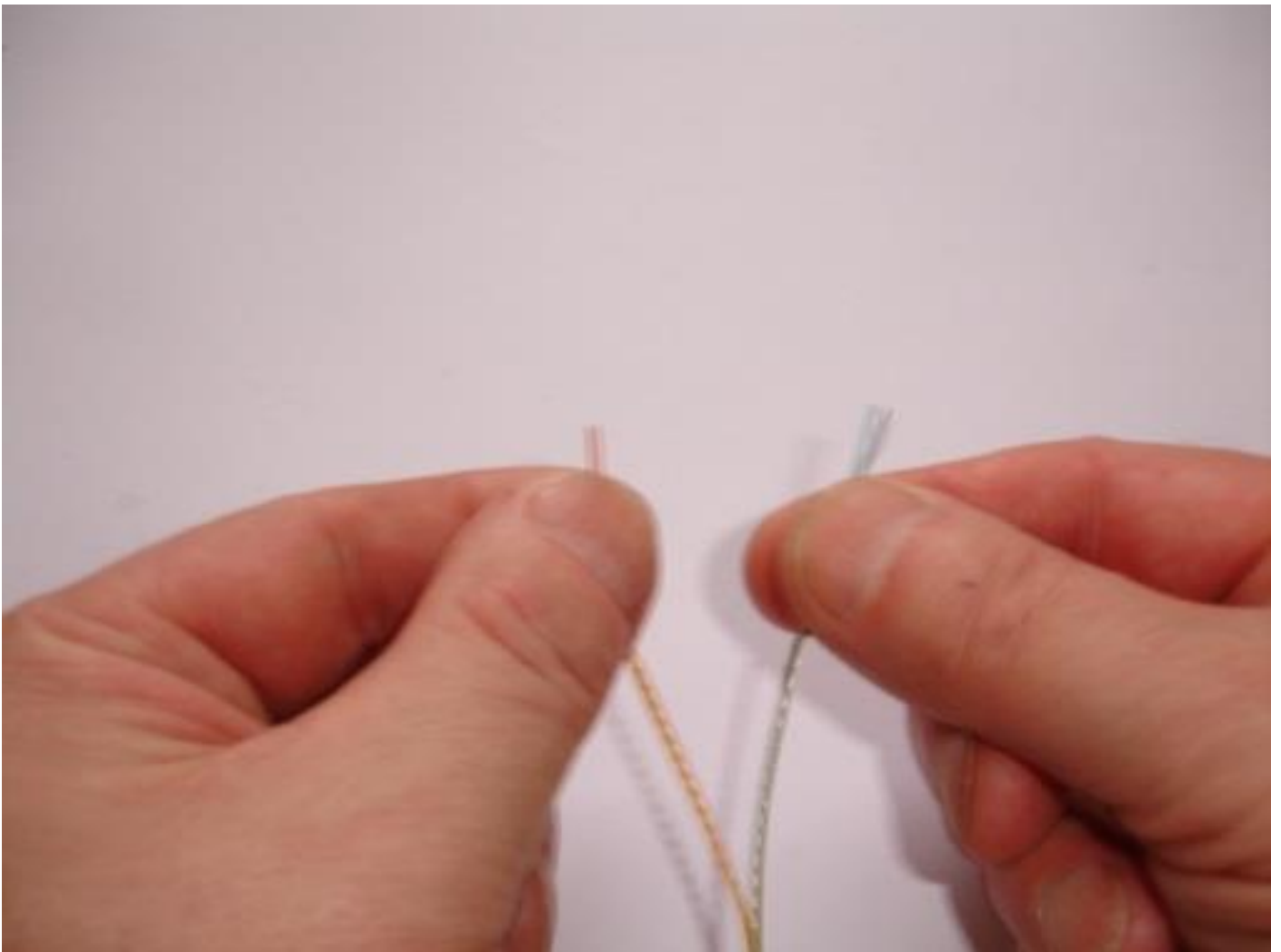
Step 2



Using the Lint Free Cloth remove 20mm of coating from around the optical fibres.

Cable Installation Guide

Step 3



Whilst holding 6 optical fibres in each hand gently pull the fibre groups apart.

Cable Installation Guide

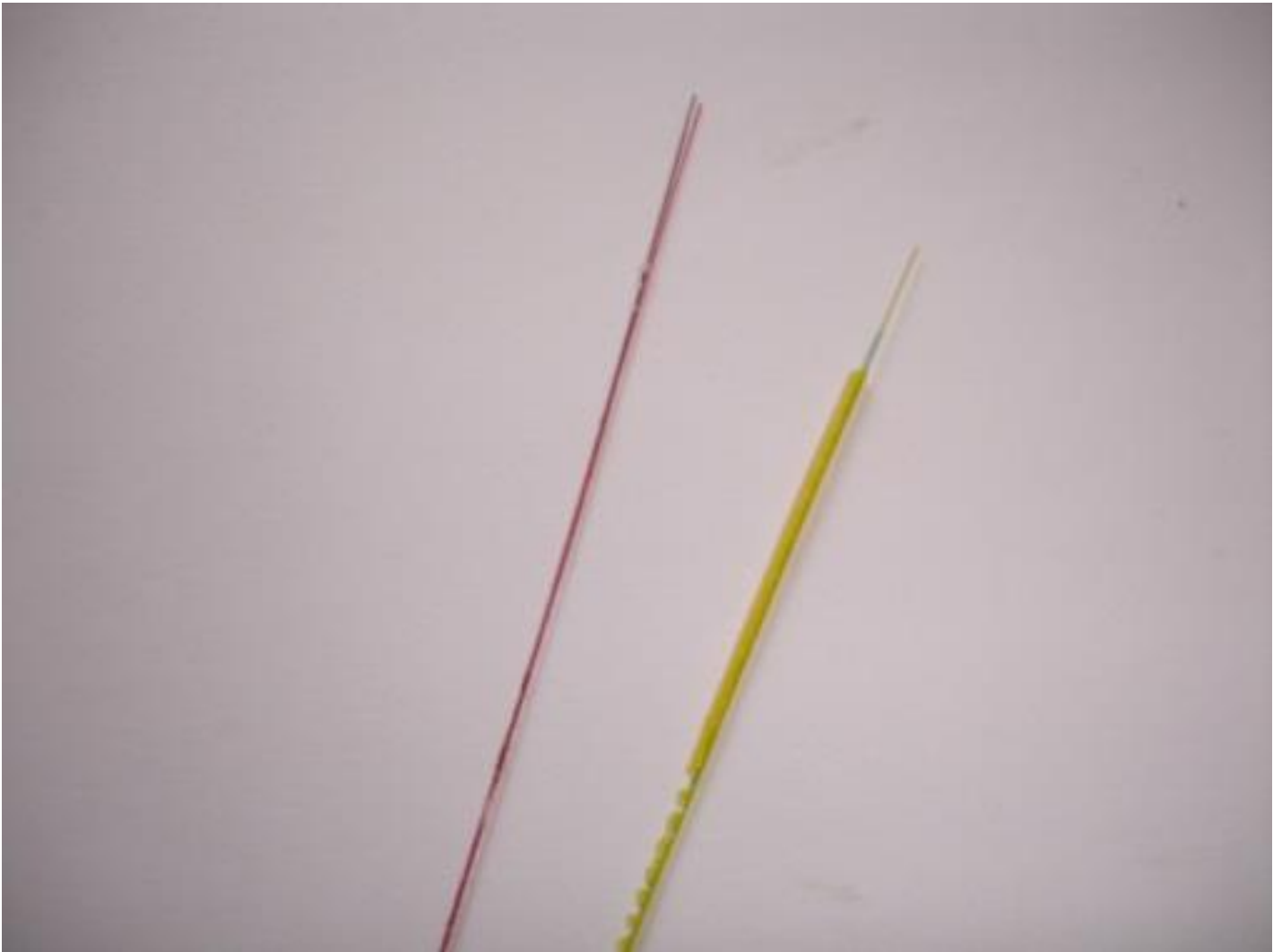
Step 4



Taking one of the groups of optical fibres split it down into two groups.

Cable Installation Guide

Step 5



Repeat step 4 with the other group of optical fibres.

Cable Installation Guide

Step 6



Continue splitting the groups of optical fibres until there are 12 individual fibres.

Cable Installation Guide

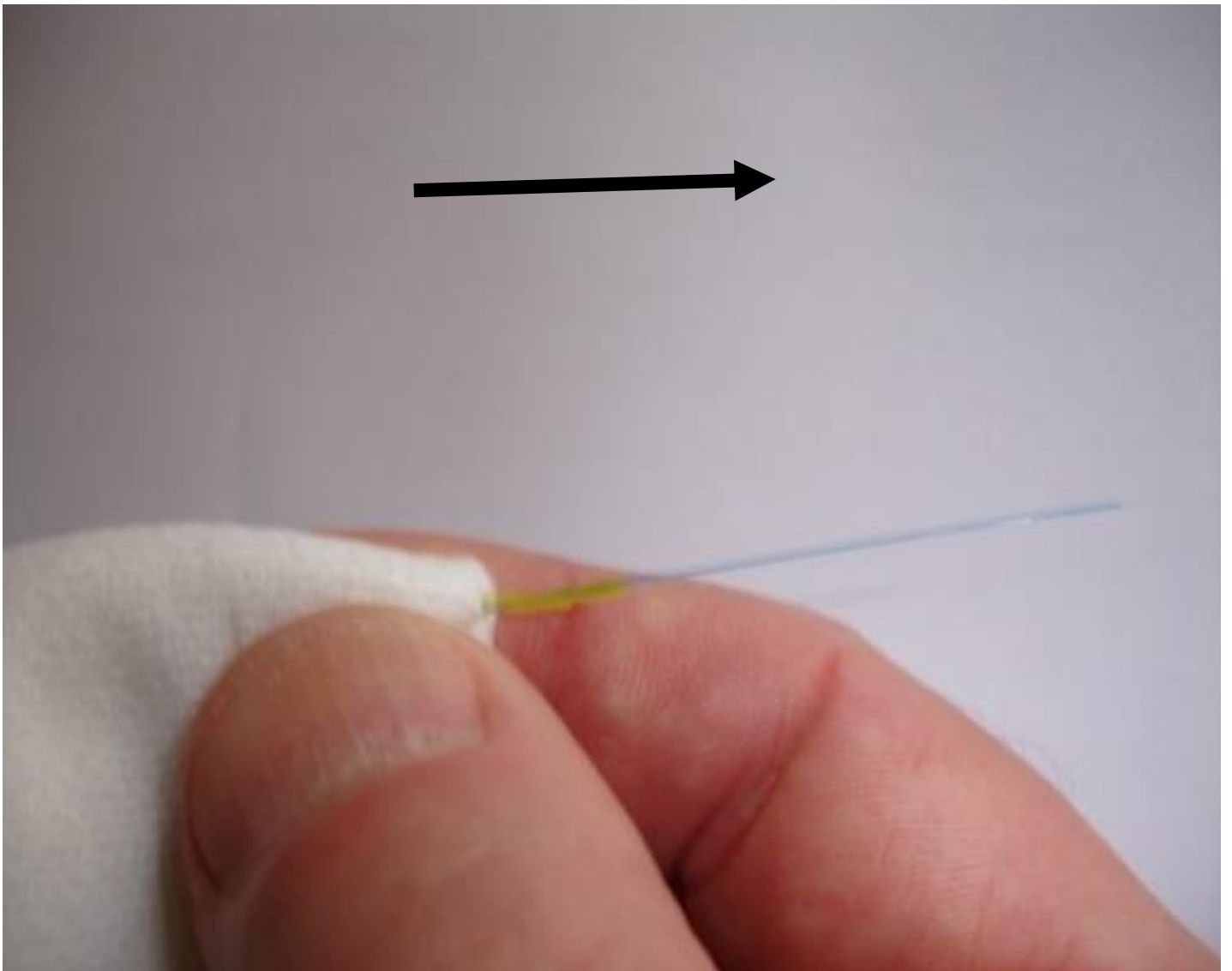
Step 7



The unit coating will remain on a few of the individual optical fibres.

Cable Installation Guide

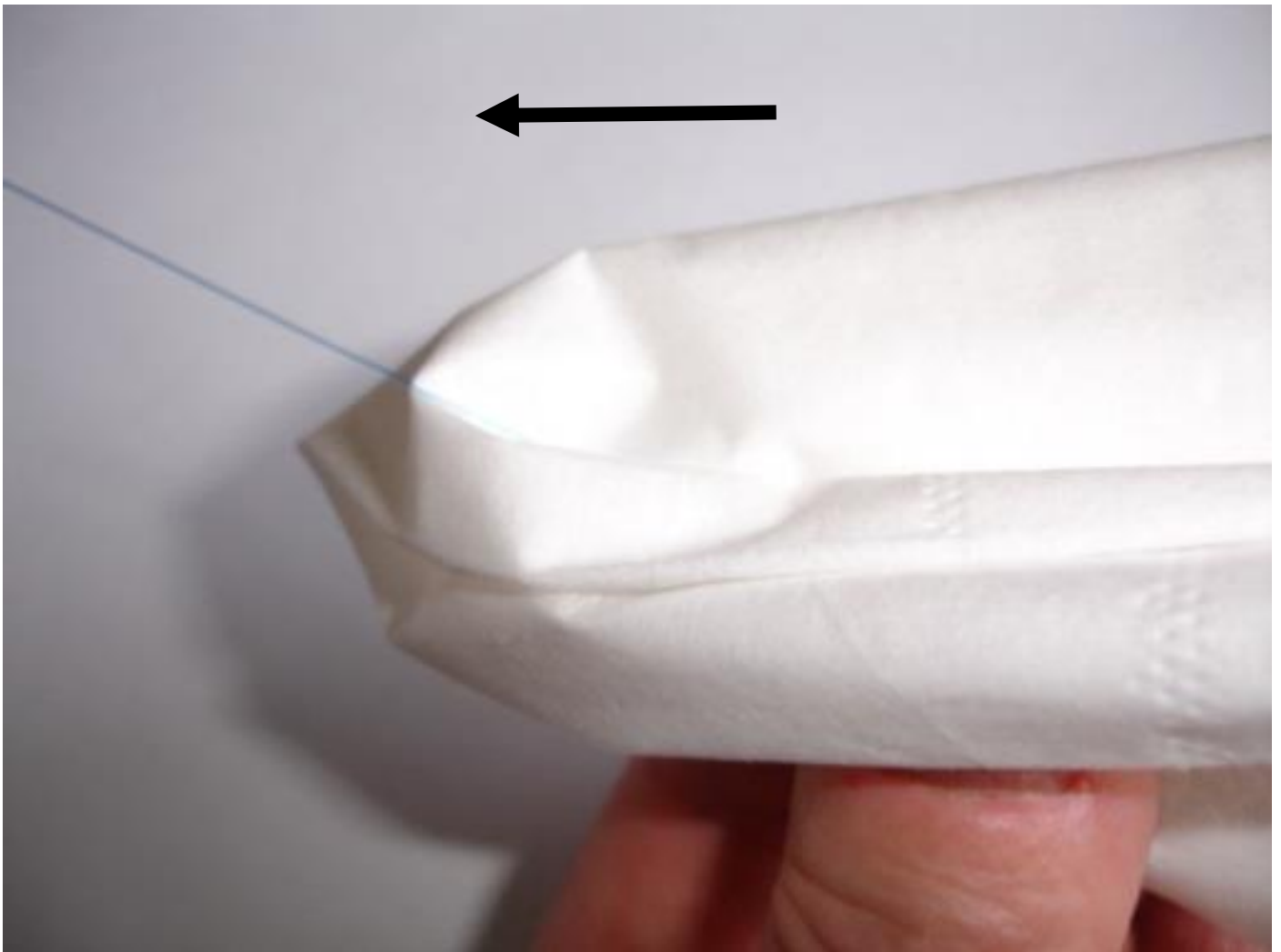
Step 8



Starting at the free end of the fibre gently remove the resin from the fibre using the Lint free Cloth. The coating should be removed towards the free end of the fibre in 100 mm sections.

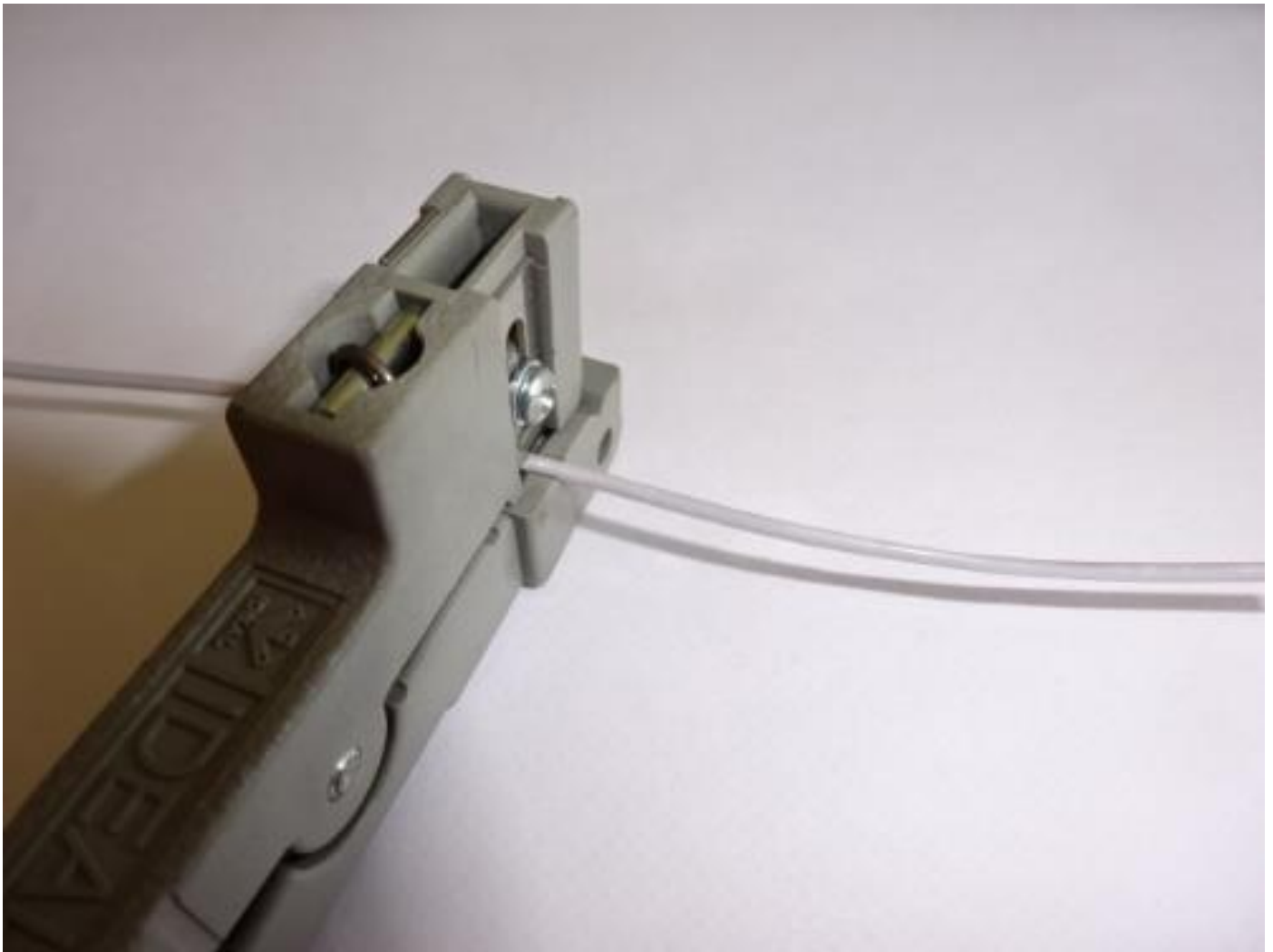
Cable Installation Guide

Step 9



Using the lint free cloth give the optical fibres a final wipe to ensure that there is no more resin on the optical fibres.

Follow the relevant instructions to configure the cable into the optical fibre joint.

PBT Fibre Tube Bundle Stripping Procedure**Step 1**

On a sample of tube check the setting of the peg cutter to ensure that the optical fibres are not damaged by the operation of the cutter.

Cable Installation Guide

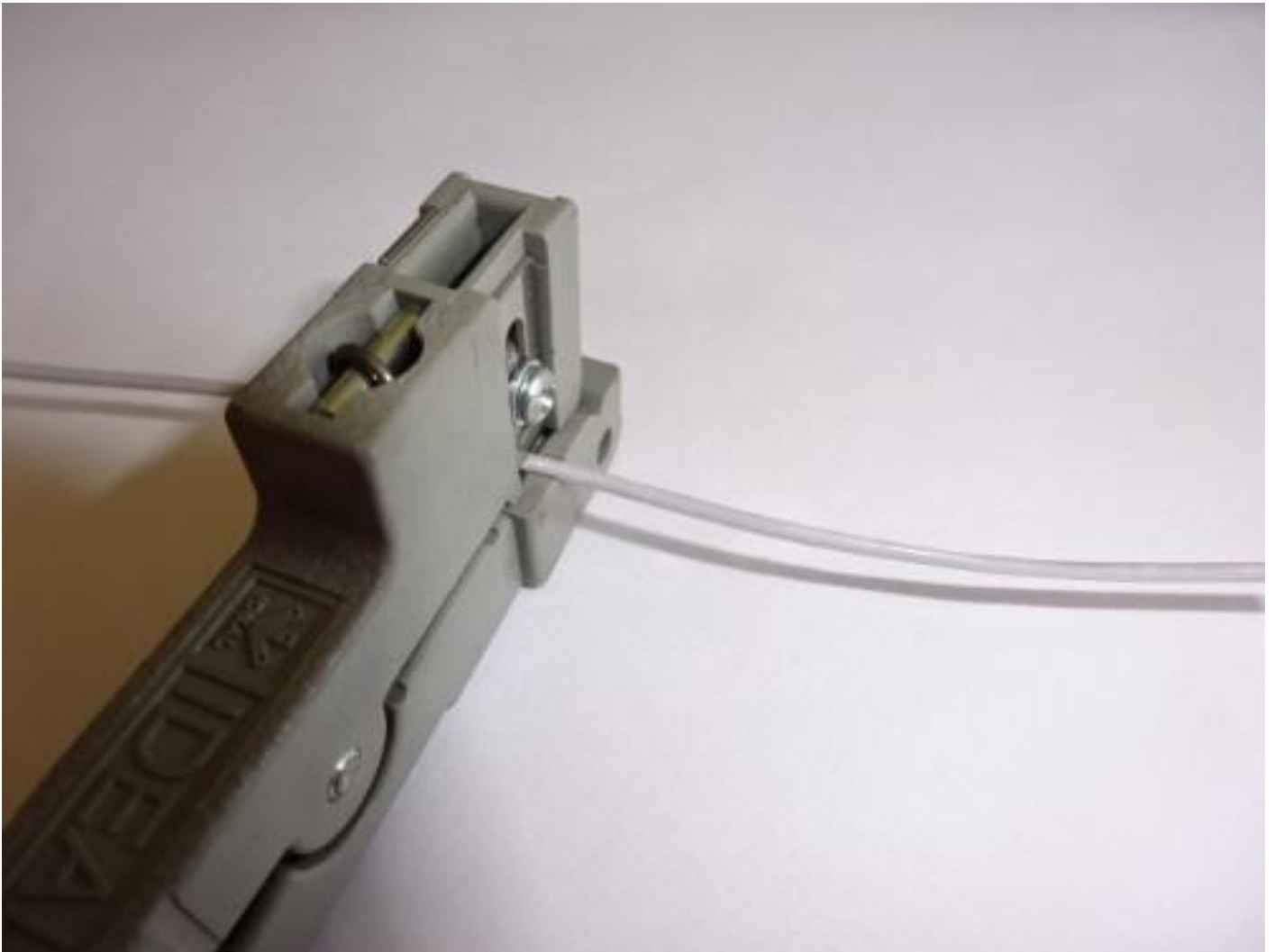
Step 2



If required adjust the cutter depth to ensure that the optical fibres are not damaged.

Cable Installation Guide

Step 3



Re-test on another sample of tube to confirm setting.

Cable Installation Guide

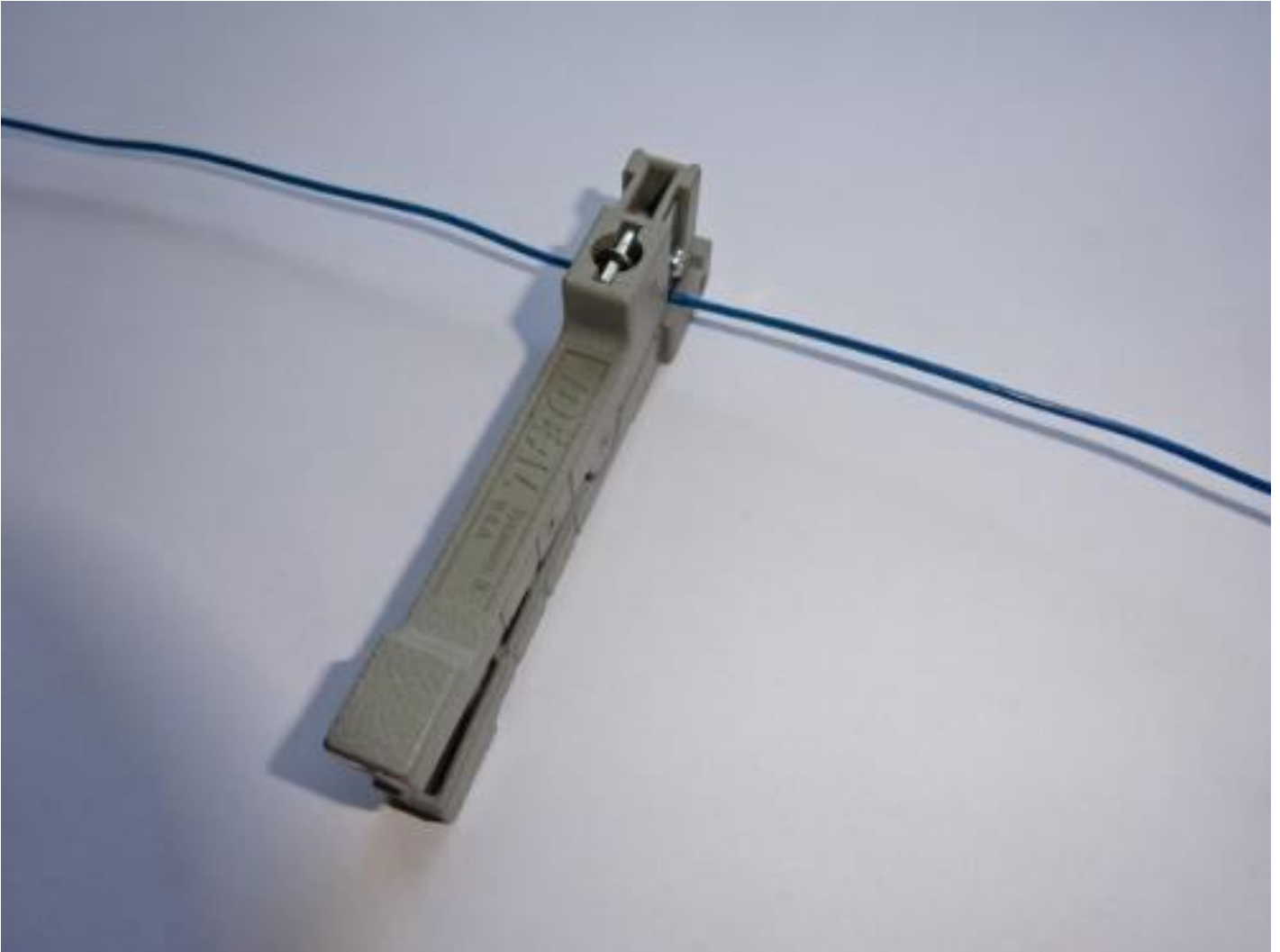
Step 4

No Picture

Determine the amount of optical fibre that needs to be removed from the tube.

Cable Installation Guide

Step 5



At a position 300mm from the end of the tube apply a circumferential cut.

Cable Installation Guide

Step 6



If required gently flex the tube to break it.

Cable Installation Guide

Step 7



Remove the tube from around the optical fibres.

Cable Installation Guide

Step 8

No Picture

Repeat Steps 5 to 7 until the optical fibres are exposed up to the point identified in Step 4.

Cable Installation Guide

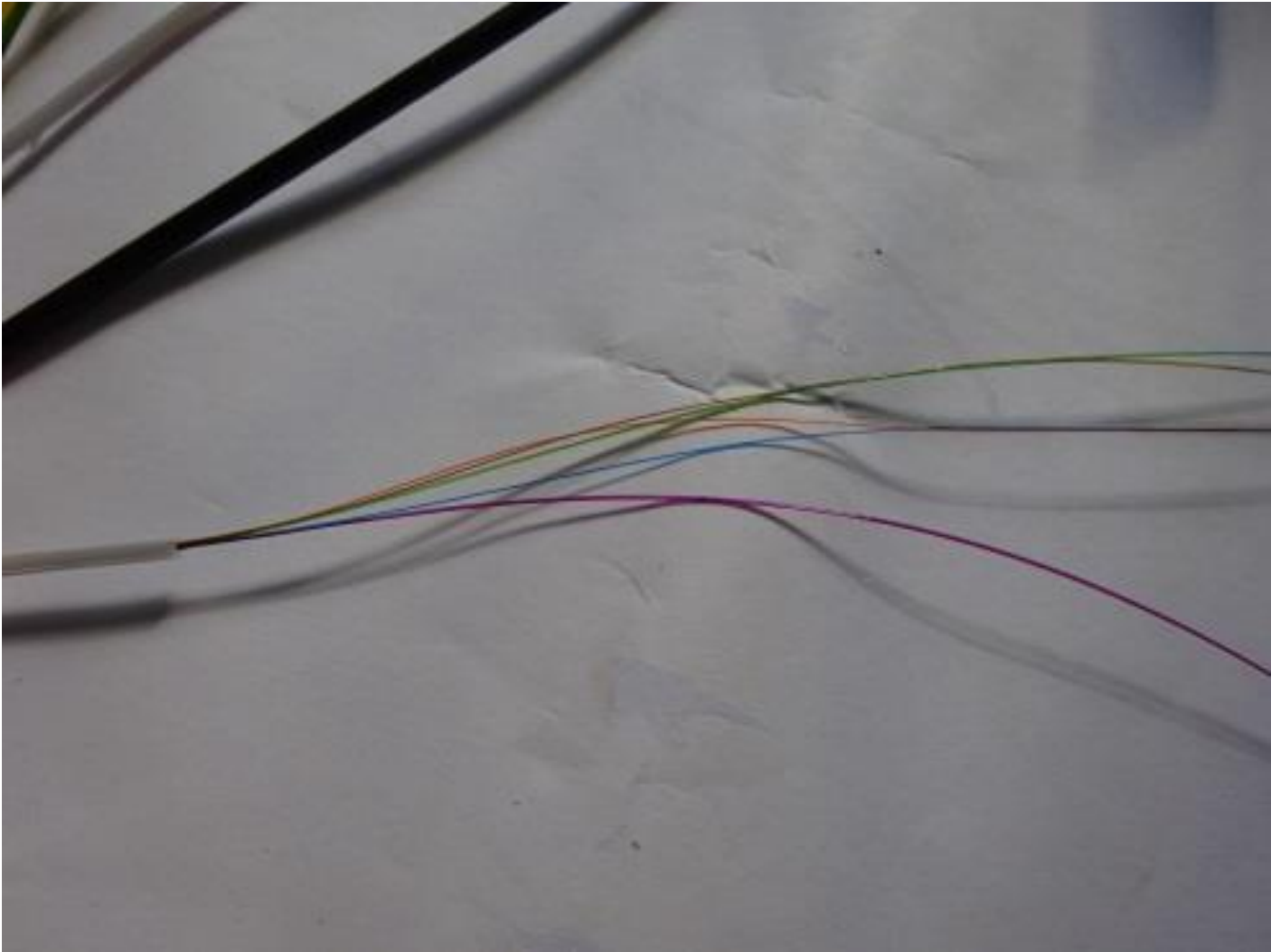
Step 9



Using a cloth with a suitable cleaning fluid e.g. IPA remove the grease from around the optical fibres.

Cable Installation Guide

Step 10



. Separate the optical fibres.

Follow the relevant instructions to configure the cable into the optical fibre joint.